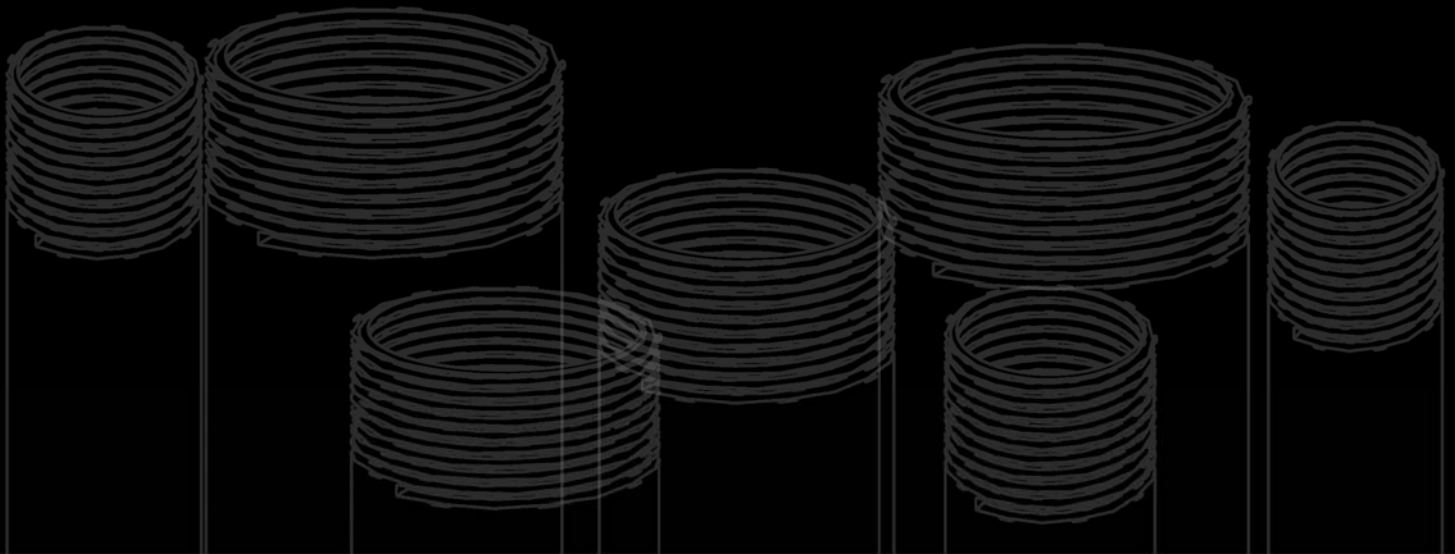


MOVING FORWARD WITH QUALITY

DAIWA WHITECONDUIT



TIS 770-2533



WWW.DAIWACONDUIT.COM

TRUSTED BRAND FOR

30
Years

DAIWA ELECTRICAL CONDUIT was firstly established in 1991 launching an elbow for EMT,IMC,RSC to the industrial market. With professional and good ethic business, our products always receive the highest satisfaction and reputable recognition nationwide. The company was consequently pursuant to business's rapid growth and converted to DAIWA INDUSTRIAL CO.,LTD.

DAIWA
WHITECONDUIT

"MOVING FORWARD WITH QUALITY"

Vision : To be a specialized manufacturer in the provision of electrical conduit and accessories which positions " DAIWA " to be synonymous with reliability, efficiency, quality supremacy and client's supremacy.

Mission :

1. Superior quality products conforming to the national and international standard.
2. Provide quality supremacy with the most cost efficient way to ensure competitiveness of DAIWA through the provision of value added products and superior customer service.
3. Continuously development and self improvement to meet customer service.
4. JUST- IN - TIME Delivery.

DAIWA : Full Hot Dip Galvanized (HDG)

Daiwa electrical conduit : Superior galvanizing by in-line hot-dipped process for greater protection against corrosion. DAIWA electrical conduit is hot dip galvanized inside and outside (full hot dip galvanized (HDG)), so that metal - to metal contact and galvanic protection against corrosion.

Additionally, DAIWA electrical conduit is finished with durable and clear anti-corrosion coating for higher protection outside and higher grade epoxy coating inside.

DAIWA 's Scope of Product :

Product

- EMT-HDG
- IMC-HDG
- RSC
- COUPLING & ELBOW

CERTIFICATIONS:

- UL
- TIS 770-2533
- ISO 9001:2008
- THAILAND TRUSTED MARK



Raw Material

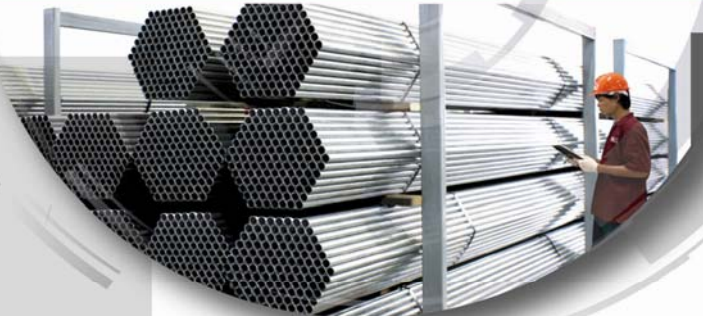


DAIWA conduit's raw material is prime quality. We have brought top quality raw material from the utmost reliable mills from both outside and inside the country. The quality control system ensures that specialized expertise is applied to each stage of our production.

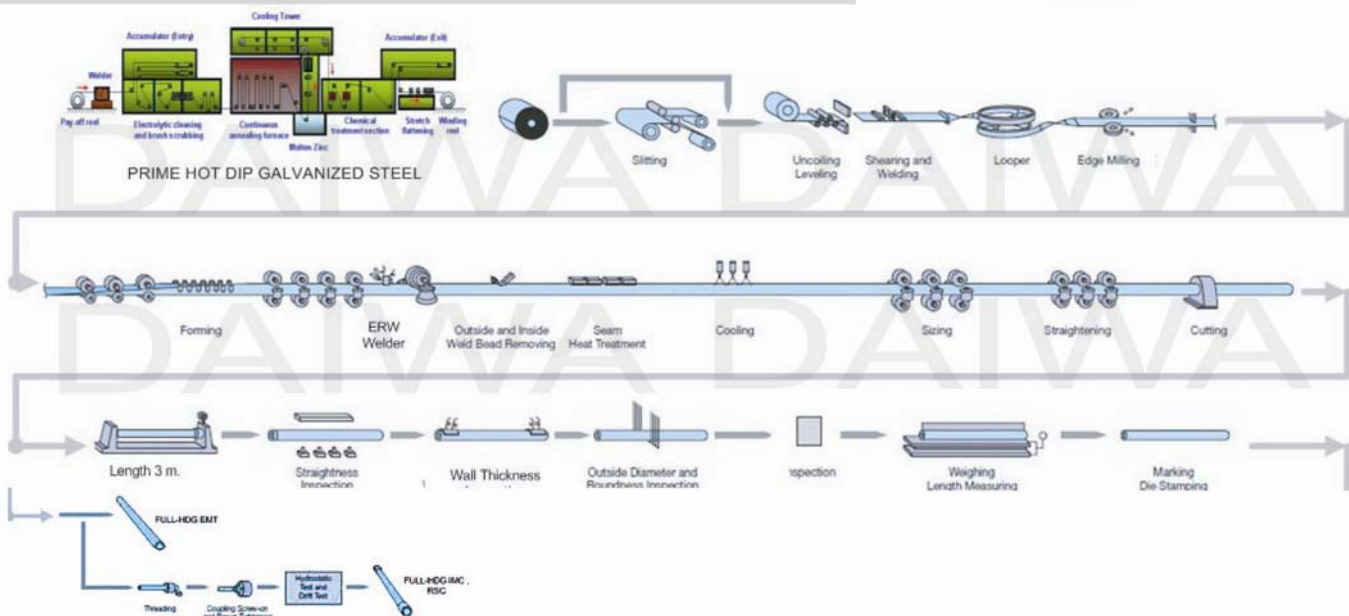
DAIWA conduit are those with the advanced ERW technology which is excellent in quality, perfect in welding seam steady and fast in welding and great ability in production. The technology "FFX" (Flexible tube forming Mill line) is the most modern Japan Technology which we use in delivering top quality DAIWA's products. We also adapt the American technology to ensure that we can deliver the outstanding products that are great in better proof for the best bending technique to ensure our client satisfaction



Production Process



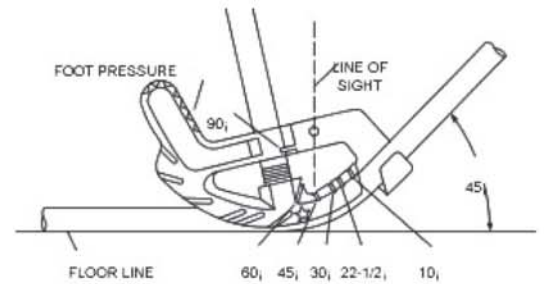
HOT-DIP GALVANIZED STEEL PROCESS



Feature

1. EASY AND ACCURATE BENDING:

DAIWA electrical conduit is made of high quality steel and its excellent ductility provides easy and accurate bending, cutting and joining to prevent waste of time and material



2. EASY WIRE PUSHING AND PULLING:

The high-grade stove epoxy resin coating on the inside wall makes wire-pulling easy, and protects against. Moreover, the good interior surface quality provides smooth continuous raceways for easy and fast wiring pulling.

3. HIGH CORROSION RESISTANCE :

Pure zinc coating on the exterior wall and stove epoxy resin finished on the inside protects electrical conduit from corrosion, even by harsh chemicals and sea air.

4. EASY COUPLING AND FAST INSTALLATION

Precise, sharp threads cut by automated machinery mean fast and easy installation. Precise threads also make our conduit virtually moisture-tight. Additionally, threads are double protected. They are well protected after cutting again by application of molten zinc.

5. UNIFORM QUALITY:

Flat steel is rolled, Zinc-coated and threaded in one continuous automated process for uniform high quality.

Inspection

Although with the approval of the customer mill inspection may be considered final. The customer may specify another competent party to conduct the final inspection at his account. Such inspection should comply with all the specifications start in the contract. The customer may also secure. The presence of any competent person or persons at the inspection, provided that regular mill operations are not seriously hampered by their presence.



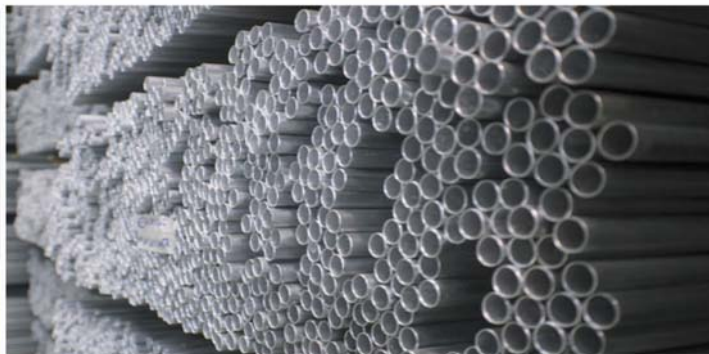


PRODUCT : EMT- HDG

REFERENCE STANDARD : TIS 770-2533, ANSI C80.3, UL 797

Electrical Metallic Tubing (EMT), also commonly called thin-wall, is a listed steel raceway of circular cross section which is unthreaded, and nominally 10 feet long. Twenty foot lengths are also available. Covered by Article 358 of the NEC®,

EMT is available in trade sizes ½" through 2" The outside is galvanized for corrosion protection and the inside has an approved corrosion resistant organic coating. EMT is installed by use of set-screw or compression-type couplings and connectors. It is permitted to have an integral coupling which is comprised of an expanded, "belled" shape of tube on one end with set screws.



WEIGHTS AND DIMENSIONS

Trade Size Designator		Nominal Outside Diameter	Reference Inside Diameter	Reference Wall Thickness	Length	Minimum Weight Per 10 Unit Lengths
U.S.	Metric	mm.	mm.	mm.	mm.	kg.
1/2"	15	17.9	15.8	1.06	3050	12.9
3/4"	20	23.4	20.9	1.24	3050	19.7
1"	25	29.5	26.6	1.45	3050	29.0
1-1/4"	32	38.4	35.0	1.65	3050	43.1
1-1/2"	40	44.2	40.9	1.65	3050	49.9
2"	50	55.8	52.5	1.65	3050	63.5

Applicable Tolerances: Length ; +/- 6mm
Outside Diameter : for trade size 1/2" -2" : +/-0.13 mm

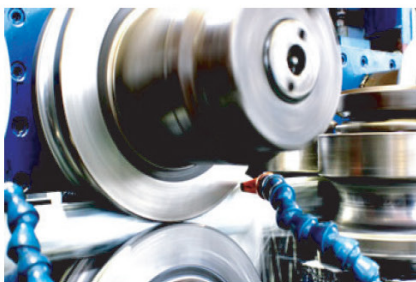
PRODUCT : IMC- HDG

REFERENCE STANDARD : TIS 770-2533,UL 1242



The product was developed in the 1970s. Intermediate Metal Conduit (IMC) is a lighter-weight, thinner wall alternative to rigid steel conduit. Covered under Article 342 in the NEC®, IMC is a listed threaded steel raceway of circular cross section with a coupling which can be either a standard straight-tapped conduit coupling or the integral type. Threads on the uncoupled end are covered by industry color-coded thread protectors which protect the threads, keep them clean and sharp, and aid in trade size recognition.

IMC is available in trade sizes 1/2" through 4" The nominal finished length of IMC with coupling is 10 feet.



WEIGHTS AND DIMENSIONS

Applicable Tolerances: Length ; +/- 6mm

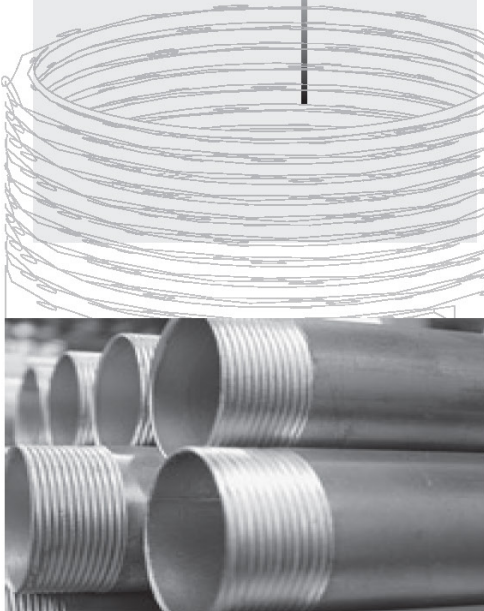
Outside Diameter :

for trade size 1/2" -2" : +/-0.2 mm.
for trade size 2 1/2" - 4" : +/-0.3 mm.

Wall Thickness :

for trade size 1/2" -1" : + 0.40 mm.
for trade size 1-1/4" -4" : +0.50 mm

Trade Size Designator		Nominal Outside Diameter	Reference Wall Thickness	Length without Coupling	Minimum Weight Per 10 Unit Lengths without Couplings Attached
U.S.	Metric	mm.	mm.	mm.	kg.
1/2"	15	20.7	1.79	3030	25.4
3/4"	20	26.1	1.90	3030	34.6
1"	25	32.8	2.16	3025	49.9
1-1/4"	32	41.6	2.16	3025	64.3
1-1/2"	40	47.8	2.29	3025	79.1
2"	50	59.9	2.41	3025	105.2
2-1/2"	65	72.6	3.56	3010	186.2
3"	80	88.3	3.56	3010	229.0
3-1/2"	90	100.9	3.56	3005	263.0
4"	100	113.4	3.56	3005	296.1





The installation of Rigid Steel Conduit (RSC) is covered by Article 344 of the National Electrical Code® (NEC®). This article is entitled "Rigid Metal Conduit (RMC) and includes all requirements for all rigid metal conduits, including steel, stainless steel, aluminum, and red brass. Information on this STI website covers only rigid steel conduit.

Rigid steel conduit is the heaviest-weight and thickest wall conduit. Where galvanized by the hot-dip process, it has a coating of zinc on both the inside and outside. RSC is non-combustible and can be used indoors, outdoors, underground, concealed or exposed.

WEIGHTS AND DIMENSIONS

Applicable Tolerances: Length : +/- 6mm

Outside Diameter :

for trade size 1/2" - 2" : +/-0.4 mm.

for trade size 2 1/2" - 4" : +/-0.6 mm.

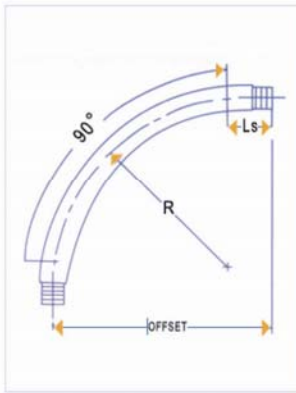
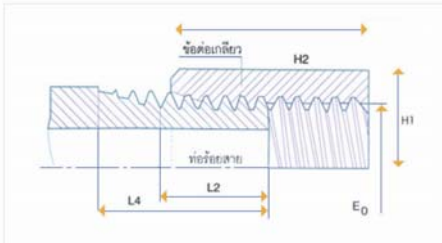
for trade size 5" - 6" : +/-1.5 mm.

Wall Thickness : -12.5%

Trade Size Designator		Nominal Outside Diameter	Reference Wall Thickness	Length without Coupling	Minimum Weight Per 10 Unit Lengths without Couplings Attached
U.S.	Metric	mm.	mm.	mm.	kg.
1/2"	15	21.3	2.64	3030	35.8
3/4"	20	26.7	2.72	3030	47.6
1"	25	33.4	3.20	3025	69.4
1-1/4"	32	42.2	3.38	3025	91.1
1-1/2"	40	48.3	3.51	3025	113
2"	50	60.3	3.71	3025	151
2-1/2"	65	73.0	4.90	3010	239
3"	80	88.9	5.21	3010	310
3-1/2"	90	101.6	5.46	3005	373
4"	100	114.3	5.72	3005	441
5"	125	141.3	6.22	3000	596
6"	150	168	6.76	3000	792



DIMENSION OF THREADS



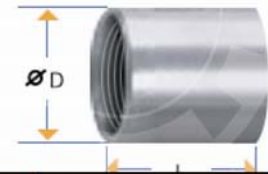
Trade Size Designator		Number of Threads Per 25.4	L4 Total Length of Threads	L2 Effective Length of Threads	E0 Pitch Diameter at End of Conduit
U.S.	Metric	mm.	mm.	mm.	mm.
1/2"	15	14	19.8	13.5	19.26
3/4"	20	14	20.1	14.0	24.58
1"	25	11-1/2	24.9	17.3	30.83
1-1/4"	32	11-1/2	25.7	18.0	39.55
1-1/2"	40	11-1/2	26.2	18.3	45.62
2"	50	11-1/2	26.9	19.3	57.63
2-1/2"	65	8	39.9	29.0	69.08
3"	80	8	41.4	30.5	84.85
3-1/2"	90	8	42.7	31.8	97.47
4"	100	8	43.9	33.0	110.09
5"	125	8	46.7	35.8	136.93

Applicable Tolerances: Length ; +/- thread, recommended practice +0, -1
Pitch +/- 1 turn is the maximum variation permitted from the gaging face of the working thread gauges

DIMENSION OF 90 DEGREE ELBOWS

Trade Size Designator		Metric Units	
		Minimum Radius to center of Tubing	Maximum Straight Length LS Each End
U.S.	Metric	mm.	mm.
1/2"	15	102	99.00
3/4"	20	114	109.50
1"	25	146	112.00
1-1/4"	32	184	158.00
1-1/2"	40	210	145.00
2"	50	241	179.00
2-1/2"	65	267	241.00
3"	80	330	260.00
3-1/2"	90	381	309.00
4"	100	406	297.00

DIMENSION OF COUPLINGS



Trade Size Designator		Outside Diameter	Pitch Diameter	Chamfer Diameter
U.S.	Metric	mm.	mm.	mm.
1/2"	15	41.3	20.68	20.27
3/4"	20	41.7	26.01	25.60
1"	25	50.0	32.59	32.00
1-1/4"	32	51.6	41.35	40.77
1-1/2"	40	52.4	47.45	46.86
2"	50	54.0	59.51	58.93
2-1/2"	65	81.0	71.83	71.12
3"	80	84.1	87.71	87.00
3-1/2"	90	86.5	100.01	99.70
4"	100	89.3	113.10	112.40
5"	125	100	140.10	140.20

Applicable tolerances:
Outside Diameter Tolerance: plus tolerances:
No requirement minus tolerances for trade size smaller than 1-1/4 : -0.04 mm. For trade size 1-1/4 and larger : 1%

Certification

■ CERTIFICATIONS:

- UL
- TIS 770-2533
- ISO 9001:2008
- THAILAND TRUSTED MARK



ใบอนุญาต (1) 3841-71/773

ใบอนุญาต

แสดงเครื่องหมายมาตรฐานกับผลิตภัณฑ์อุตสาหกรรม
อาชีวอนามัยและความปลอดภัยตามกฎหมายว่าด้วยอุตสาหกรรม
และการคุ้มครองผู้บริโภค

ออกใบอนุญาตฉบับนี้ให้

บริษัท ไซม่อนอินเตอร์เนชั่นแนล จำกัด

แสดงเครื่องหมายมาตรฐานกับผลิตภัณฑ์อุตสาหกรรม

ที่ทำการตั้งตามมาตรฐานผลิตภัณฑ์อุตสาหกรรม

เครื่องจักรไฟฟ้า

สำหรับโรงงานอุตสาหกรรม

เลขที่ มอก. 770-2533

วันที่ 20 ธันวาคม พ.ศ. 2555

อธิบดีกรมมาตรฐานผลิตภัณฑ์อุตสาหกรรม

นางสาวสุภาวดี ทรัพย์ทวีชัย

รองอธิบดีกรมมาตรฐานผลิตภัณฑ์อุตสาหกรรม

นายสุวิทย์ ทรัพย์ทวีชัย

ผู้อำนวยการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม

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รองผู้อำนวยการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม

นายสุวิทย์ ทรัพย์ทวีชัย

ผู้อำนวยการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



Registration Schedule

ใบรับรองระบบการบริหารงานคุณภาพ

บริษัท ไลวา อินดัสทรี จำกัด

ได้ผ่านการตรวจสอบประเมินโดยบริษัท เอเชีย รีเสิร์ช จำกัด และขึ้นทะเบียน

เป็นไปตามข้อกำหนดของ

ISO 9001: 2008

เลขที่ใบรับ: AJAT10Q2210 วันที่ได้รับการรับรอง: 29.01.53

วันที่หมดอายุการรับรอง: 28.01.56 วันที่ต่ออายุการรับรอง: N/A

This Certificate is the Property of AJA Registrar Ltd and must be returned on request.
AJA Registrar Ltd operates under Accreditation by UKAS which is an ISO 9001 and ISO 14001 Group Member.
AJA Registrar Ltd, 200, Main 4, Jomtien International Drive, Chongnongroo Road, Pattaya, Chonburi 11120

Certificate of Compliance

Underwriters Laboratories

Issued to: DAIWA INDUSTRY CO LTD
999-9 MOO 9 PRAKUNTHAN RD.
Nakhon Phanong Province, Thailand
Sattungsakul 10200 Thailand

This is to certify that representative samples of

Electrical Metallic Tubing

Electrical Metallic Tubing - Steel Trade Sizes shall be 1/2, 3/4, 1, 1-1/4, 1-1/2 and 2

Have been investigated by Underwriters Laboratories in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 797 - Electrical Metallic Tubing - Steel

Additional Information: See UL Online Certification Directory at www.ul.com for additional information.

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Listing Certificate.

The UL Listing Mark generally includes the following information: the symbol UL, the word LISTED, a control number (may be abbreviated) assigned by UL, and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

William R. Curvey
Director, North American Certification Programs
Underwriters Laboratories Inc.
Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or its authorized licensee of UL.
For questions, please contact a local UL Customer Service Representative at www.ul.com or usa@ul.com

Project Reference



PUBLIC SECTOR:

- Suwanaphumi Airport
- BTS- Purple line
- PTT Chonburi
- Don Maung Airport
- The Electricity General Authority (Khao Laem Dam) (EGAT)
- The Electricity General Authority (Srinakarin Dam) (EGAT)
- The Metropolitan Electricity Authority (MEA)
- The Metropolitan Waterwork Authority (MWA)
- The Official Residence (APEC)
- Pa Aaw Dam
- Tha Dann Dam
- Thai Airways
- Bamrungrat Hospital
- Watchiralongkorn Building
- Chulalongkorn University
- Kingmongkut University of Technology Thonburi
- Kasetsart University

INDUSTRIAL SECTION :

- Continental Automotive Factory
- Toyota Tsusho
- Honda Facility
- Hoya Cosmetic Factory
- Sanyo Kasei Factory
- Siam Aisin Factory
- Amata Nakorn Phase 4
- Rayong Galvanizing
- ISUZU Chaloeprakriat
- Ford Automotive Factory
- Cannon Factory
- Carterpilla Assembling Factory
- YS PUND NEW FACTORY บ้านโพธิ์
- FUJIKURA ELECTRONIC FACTORY

Project Reference



HIGH BUILDING & COMPLEX :

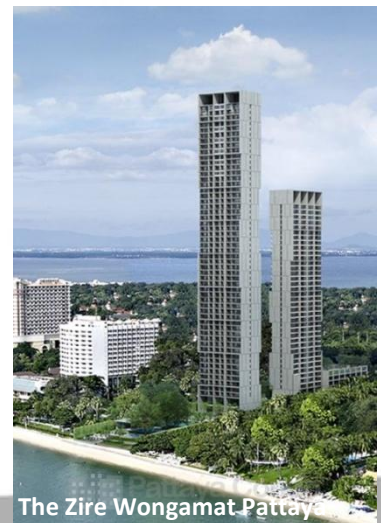
- Central Pattaya
- Siam Paragon
- Central World
- Dusit Resort & Polo Club
- CU Block L
- Piyathip Tower
- CP (Lang Suan)

CONDOMINIUM :

- Life @ Sathorn
- Life @Aree
- Life @ Huay Khwang
- Life @Suthisarn
- Q-House Sathorn
- The Room Sukhumvit64
- The Room Ratchada-Ladprao
- Centric Ratchavipha
- Sivatel / Sivayathorn
- Sala Sathorn
- The Address Chidlom
- Wind Sukhumvit 23
- Le Monaco
- Le Rich
- Siri@ Sukhumvit
- Empire Place
- The Coast Bangkok
- 185 Rajadamri
- The Zire Wongamat Pattaya
- Rich Park (Wongsawang)
- ASPIRE (Rama 9)
- Centric Tiwanon Station
- IDEO MOBI (Rama9)

INTERNATIONAL SECTION :

- Royal PP Phanompaing
- Paksae Airport
- Koh Kong Vietnam
- Australia Embassy (LAO)
- Premco , Phillipine Distributor
- Middle East Country



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